

1983

EC 83-106 Nebraska Grain Sorghum Performance Tests 1982

A. F. Dreier

P. T. Nordquist

Roger Wesley Elmore

University of Nebraska-Lincoln, roger.elmore@unl.edu

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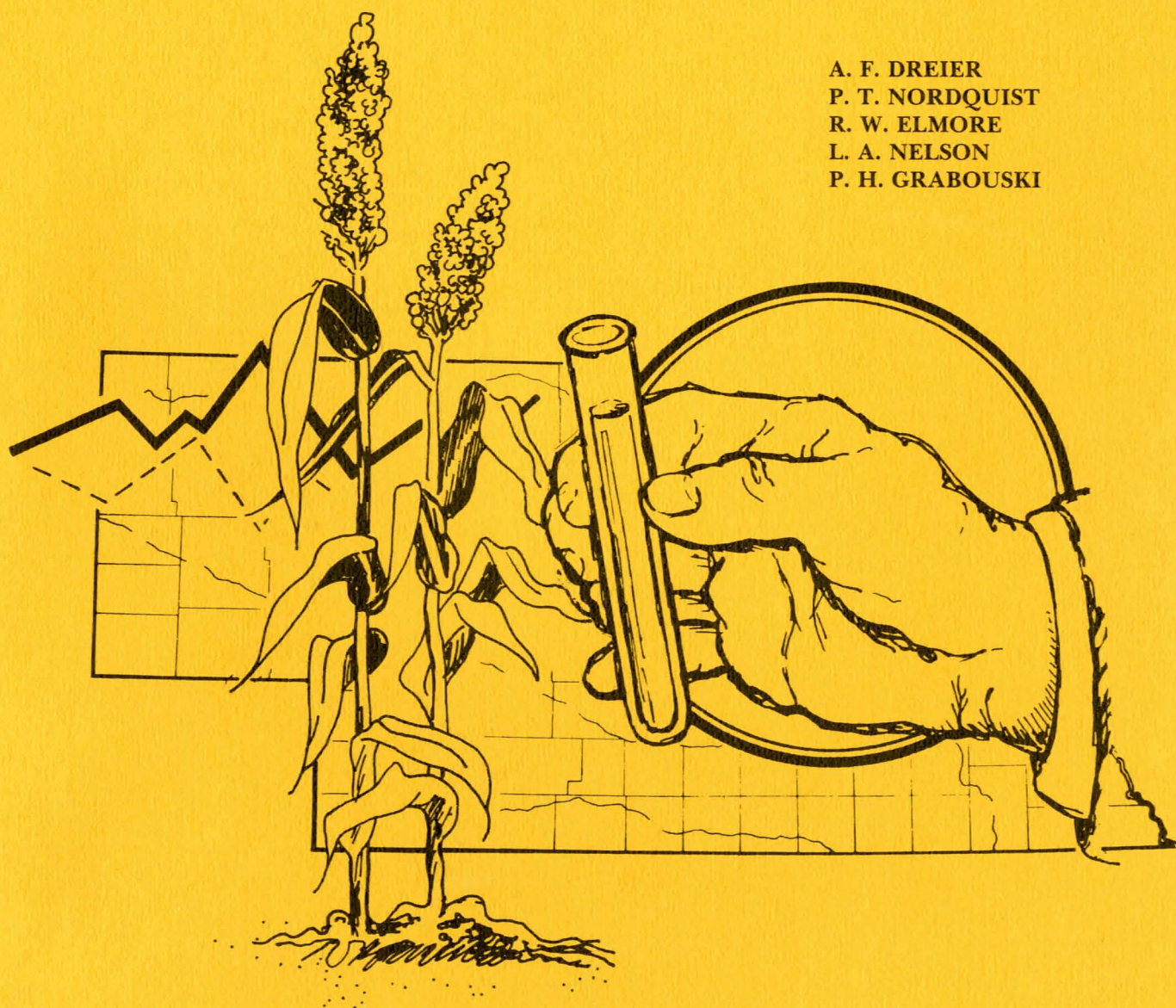
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NEBRASKA COOPERATIVE EXTENSION SERVICE—E.C. 83-106

NEBRASKA GRAIN SORGHUM PERFORMANCE TESTS 1982

A. F. DREIER
P. T. NORDQUIST
R. W. ELMORE
L. A. NELSON
P. H. GRABOUSKI



Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Leo E. Lucas, Director of Cooperative Extension Service, University of Nebraska, Institute of Agriculture and Natural Resources.



EXTENSION CIRCULAR 83-106

January 1983

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ACKNOWLEDGEMENT

This circular is a progress report of grain sorghum trials conducted to obtain yield and other information for some of the sorghum hybrids and varieties which have been developed. The 1982 season was the 25th that private hybrid strains were included in extensive trials. Seed producers supported tests through payment of fees.

Cooperating in this project were the Agronomy Department and the South Central, North Platte, and Panhandle Stations. Acknowledgement is made to County Extension Agents and others who assisted in these tests. Special acknowledgement is made to farmer cooperators and to W. M. Ross, U.S.D.A. sorghum breeder. Conduct of experiments and publication of results is a joint effort of the Agricultural Experiment Station and the Cooperative Extension Service.

NEBRASKA GRAIN SORGHUM PERFORMANCE TESTS

1982

A. F. Dreier, P. T. Nordquist, R. W. Elmore,
L. A. Nelson, and P. H. Grabouski ^{1/}

Recent grain sorghum acreages and yields in Nebraska were as follows:

	1976	1977	1978	1979	1980	1981
Yield bu/A	57.0	71.0	75.0	79.0	60.0	80.0
Acres (000)	2,100	2,070	1,830	1,830	2,030	2,060

Sorghum for silage was estimated at 70,000 acres with an average yield of 11.5 tons per acre.

Cold wet weather in May delayed sorghum planting. Only 4 percent of the acreage was planted on May 30. Normally, 60 percent of the crop would be seeded by this date. On August 1, 5 percent of the crop had headed. Normal for this date is 55 percent. The crop was estimated at two weeks behind normal at this time. Cool fall weather delayed ripening. Less than 10 percent of the crop was ripe on October 1 compared with an 80 percent normal for that date. Harvest did not reach the 50 percent stage until after November 1. The delayed harvest along with wind and rain storms caused excessive stalk breakage and lodging.

This circular is a progress report of grain sorghum trials conducted by the Agricultural Experiment Station. Harvest data were obtained from all of seven trials planted. Testing zones and locations of the trials are shown on the map (Page 3) and names of cooperators are included in Table A.

Names and addresses of entrants are shown in Table B. A list of entries and zones where tested are included in Table C. Selection of hybrids for each zone was made by the entrants. Entries are listed alphabetically by brand name and hybrid designation. Open-pedigree hybrids were entered by the Nebraska Agricultural Experiment Station.

Parentage of open-pedigree entries follows:

Martin	Variety or line
NB 505	Martin x NB 3494
RS 455	M-44 x SD 104
RS 626	Tx 3197 x Tx 414
RS 671	Redlan x Tx 415

Data on one half bloom were obtained by visiting plots on alternate days during the flowering period. Where included, grain moisture determinations were made at or before harvest at a time when differences between entries were relatively high. This gives an indication of relative grain drying rates.

^{1/} Agronomists; Agricultural Experiment Station, Lincoln; North Platte Station, North Platte; South Central Station, Clay Center; Panhandle Station, Scottsbluff; and North Platte Station, North Platte, respectively.

Table B. Entrants. Nebraska Grain Sorghum Tests. 1982.

Brand	Entrant
AgriGold	AgriGold Seed Company Boone, IA 50036
Asgrow	Asgrow Seed Company Kalamazoo, MI 49001
Cargill	Cargill Seeds Minneapolis, MN 55440
Cenex	Cenex Seed Plant Grand Island, NE 68802
DeKalb	DeKalb Ag Research Glenvil, NE 68941
Fontanelle	Fontanelle Hybrids Nickerson, NE 68044
Funk	Funk Seeds International Lubbock, TX 79408
Gold Tag	Ferry-Morse Seed Company Mountain View, CA 94042
Golden Acres	Taylor-Evans Seed Company Tulia, TX 79088
Growers	GroAgri Seed Company Lubbock, TX 79408
Horizon	Horizon Seeds, Inc. Lincoln, NE 68501
Jacques	Jacques Seed Company Prescott, WI 54021
Keltgen	Keltgen Seed Company Olivia, MN 56277
McCurdy	McCurdy Seed Company Fremont, IA 52561
Migro	Migro Mission, KS 66201
NC +	NC + Hybrids Lincoln, NE 68504
Northrup King	Northrup King Minneapolis, MN 55440
Oro	R. C. Young Seed & Grain Company Lubbock, TX 79404
O's Gold	O's Gold Seed Company Parkersburg, IA 50665
PAG	PAG Seeds Minneapolis, MN 55440
Paymaster	Paymaster Seeds Minneapolis, MN 55440
Pfizer Genetics	Pfizer Genetics Doniphan, NE 68832
Stauffer Seeds	Stauffer Seeds Phillips, NE 68865
Terra	Terra Seeds, Inc. Lubbock, TX 79408
WAC	SeedTec International, Inc. Hereford, TX 79045
Warner	George Warner Seed Company Hereford, TX 79045
Wilson	Wilson Hybrids, Inc. Harlan, IA 51537
-----	Agricultural Experiment Station

Table C. Grain Sorghum Entries and Zone where listed. 1982.

Brand	Hybrid	Zone	Brand	Hybrid	Zone	Brand	Hybrid	Zone	Brand	Hybrid	Zone
-----	Martin	AB	DeKalb	DK-59	A	McCurdy	M444	BC	Paymaster	DR 1075	B
-----	NB 505	B	DeKalb	DK-61	A	McCurdy	M637	AB	Paymaster	DR 1125	A
-----	NE Exp. 793672	C	DeKalb	DK-64	A	McCurdy	M737	A	Paymaster	GR 1018	B
-----	NE Exp. 793673	C	DeKalb	Exp. 233	C	McCurdy	M990	A	Paymaster	GR 1030	B
-----	NE Exp. 793674	C	DeKalb	Exp. 241	B	McCurdy	51YG	AB	Paymaster	GR 1138	A
-----	NE Exp. 793676	C	Fontanelle	3345	C	McCurdy	57YG	A	Paymaster	1099	A
-----	NE Exp. 793677	A	Fontanelle	4455	B	McCurdy	89YG	BC	Pfizer Genetics	Exp. 8055	B
-----	NE Exp. 793691	AB	Fontanelle	5537	AB	Migro	Tek Exp. 2008	C	Pfizer Genetics	M518G	C
-----	NE Exp. 793692	A	Fontanelle	5547	B	Migro	Tek Exp. 8090	A	Pfizer Genetics	M550G	B
-----	NE Exp. 793693	A	Fontanelle	5583	A	Migro	Tek Exp. 8096	A	Pfizer Genetics	M56G	A
-----	NE Exp. 793694	AB	Fontanelle	6651	A	Migro	Tek 1011R	C	Pfizer Genetics	M568G	A
-----	NE Exp. 793695	AB	Funk	G-1350	C	Migro	Tek 1021R	C	Pfizer Genetics	M572G	A
-----	NE Exp. 793696	AB	Funk	G-1560	AB	Migro	Tek 1055R	AB	Stauffer Seeds	515	C
-----	RS 455	C	Funk	G-550	AB	Migro	Tek 1094R	A	Stauffer Seeds	530	C
-----	RS 626	AB	Funk	G-611	B	Migro	Tek 14R	C	Stauffer Seeds	535	ABC
-----	RS 671	AB	Funk	HW2657	A	Migro	Tek 35R	A	Stauffer Seeds	677	A
AgriGold	AG-255	A	Funk	HW5449	A	NC+	160	ABC	Stauffer Seeds	708	AB
AgriGold	AG-336	A	Funk	HW5551	C	NC+	172	A	Stauffer Seeds	734	AB
AgriGold	AG-355	A	Gold Tag	GT 335	C	NC+	174	A	Terra	Exp. 3191	C
Asgrow	CoH	A	Gold Tag	GT 475	A C	NC+	178	A	Terra	HT-40G	C
Asgrow	Corral	ABC	Gold Tag	GT 565	A	NC+	271	A	Terra	H-45G	C
Asgrow	H796	AB	Gold Tag	GT 585	A	Northrup King	NK 1210	C	WAC	D701G	AB
Asgrow	H802	AB	Golden Acres	T-E Dinero-R	B	Northrup King	NK 1580	C	WAC	652G	AB
Asgrow	Mustang	AB	Golden Acres	T-E Y-44-R	C	Northrup King	NK 2030	B	WAC	692G	AB
Asgrow	Topaz	AB	Golden Acres	T-E Y-45	ABC	Northrup King	NK 2244	AB	WAC	710DR	A
Cargill	22	C	Golden Acres	T-E Y-45-G	ABC	Northrup King	NK 2300	AB	Warner	W-655T	ABC
Cargill	30	BC	Golden Acres	T-E Y-77	A	Northrup King	NK 2660	A	Warner	W-864DR	C
Cargill	40	BC	Golden Acres	T-E Y-80	A	Northrup King	NK 2778	A	Warner	W-686DR	AB
Cargill	55	ABC	Golden Acres	T-E Y-101-G	AB	O's Gold	GS 5100	AB	Warner	W-839A	AB
Cargill	60	ABC	Golden Acres	T-E Y-101-R	AB	O's Gold	GS 709	B	Warner	W-839DR	A
Cargill	70	A	Growers	GSA 1310A	AB	O's Gold	GS 712	AB	Warner	W-851A	AB
Cenex	310T	AB	Growers	SG 39DMR	AB	Oro	Oro Double Xtra	B	Warner	W-851DR	AB
Cenex	405T	AB	Horizon	101G	ABC	Oro	Oro G	B	Warner	WX-9181	C
Cenex	410T	AB	Horizon	104G	AB	Oro	Oro G Xtra	A	Warner	WX-9183	C
DeKalb	DK-28	C	Jacques	308	AB	Oro	Oro Pronto	C	Wilson	617G	AB
DeKalb	DK-38	C	Jacques	404	AB	PAG	Exp. 91008	A	Wilson	621G	A
DeKalb	DK-42	B	Jacques	505	A	PAG	4474	AB	Wilson	623G	A
DeKalb	DK-42y	AB	Keltgen	KG63T	A	PAG	5514	AB			
DeKalb	DK-57	A	Keltgen	KG70A	A	PAG	5550	AB			
DeKalb	DK-58	AB	Keltgen	KG71D	A	Paymaster	DG 1195	A			

Plant height and head exertion readings were made at harvest. Lodging readings were taken at harvest. In previous years, readings sometimes were taken after harvest. Reported yields are based on 56 pounds per bushel and 14 percent grain moisture.

Entries in data tables are listed in order of increasing days from planting to one-half bloom, if those data are available. There are variations in maturity among trials and over years. The maturity of a hybrid is an important consideration in its evaluations for a given location. In making yield evaluation, hybrids should be compared with those having similar maturities.

Variations in soil fertility, moisture conditions and other factors are found in each test area. This makes it impossible to measure yielding ability of hybrids with absolute accuracy. For this reason, small yield differences have little meaning. A statistical measure of differences required for significance is given in each table. These differences were computed at the 5 percent and 25 percent levels of significance. At the 5 percent level, a difference of that magnitude would be expected once in twenty trials through chance alone. At the 25 percent level, a difference as large or larger would be expected by chance alone in one of four trials.

RESULTS

The average performance of all varieties at each 1982 test location is shown in Table D. Stalk lodging was excessive in Clay and Lincoln Counties. However, these two trials along with the Saunders County trial were hand harvested and lodging would not be reflected in reduced yields. Low bushel weights in Clay County resulted from incomplete removal of glumes from the grain in the threshing process.

The maturity yield correlation (r value) is an indication of the relationship between maturity (as measured by days to bloom) and grain yield. In Zone A, two of three trials had a highly significant correlation between days to bloom and yield. In Lincoln County, later entries were lowest in yield as indicated by the highly significant negative correlation. This also was true for the Morrill County irrigated trial. The average performance of hybrids included in trials over a five-year period is shown in Table E. These data indicate the effects of years on the characters indicated.

Zone A

One hundred seven hybrids were grown at three Zone A locations in 1982. Average data are reported in Table 1a and individual test location information is shown in Tables 1b, 1c, and 1d for Saunders, Webster, and Clay Counties, respectively.

Cool summer temperatures delayed development at all locations. The Saunders and Clay County trials followed soybeans. The Webster County test was planted no-till into wheat stubble. High winds in early November caused excessive lodging in Clay County. This plot was hand harvested for maximum recovery of the grain produced.

Later-maturing entries were highest in yield in Saunders and Clay Counties. There was little relationship in Webster County. In 12 of the last 14 years, later maturity was correlated with higher yield in Zone A trials. In 1974, a very droughty year with cooler than normal August and September temperatures, earlier maturity was correlated with higher grain yield. In 1971, there was no relationship between maturity and grain yield. Period-of-years data from Zone A are given in Tables 1e, 1f, and 1g.

In Webster County, 16 entries were planted using conventional tillage. These data are shown in Table 1g. The experimental design does not allow direct comparisons of no-till vs. tillage practices. It does allow comparisons of relative performance of hybrids under the two planting systems.

Zone B

Data from Lincoln County are shown in Table 2a. This test was planted no-till through heavy wheat straw residue. Temperatures in June were cool and emergence was poor on some entries. Crop progress was slow until halted by frost on September 20. Only 74 of the 91 entries had stands and borders which were adequate for yield determinations. Plot variability was high. There was a high correlation between early maturity and higher yield. These data are not included in period-of-years averages.

Yield data for 1977-1981 trials in this area are shown in Tables 2b and 2c. During the last 14 years, later maturity was correlated with higher grain yield in 5 seasons, earlier maturity was correlated with higher grain yield in 4 seasons and there was little relationship in 5 seasons. This is an area of high year to year variability in grain yields.

Zone C

Bird damage, especially on early entries, was severe in Cheyenne County (Table 3a). Excellent average yields would have been produced in the absence of damage. Visual estimates are not accurate enough to adjust yields and these data are not included in period-of-years data for Zone C.

Long-time yield and other data from Zone C are shown in Table 3b. In tests, since 1977, earlier maturity was correlated with higher grain yield in 1978 and 1979. There was no significant relationship in 1977, 1980, and 1981. Under these conditions, hybrid performance over years was inconsistent.

An irrigated trial was conducted in Morrill County under irrigation (Table 4a). Earlier maturity was correlated with higher grain yield. This was the first year for irrigated grain sorghum trials in this area.

Table D. Grain Sorghum Performance. Average performance at each test location. 1982.

Location	Planted	Seed spacing inches ^{1/}	Planting to bloom days	Plants height inches	Head exsertion inches	Lodging %	Test weight lb/bu	Grain yield bu/A	Yield C. V. %	Maturity Yield correlation r ^{2/}
Zone A (107 entries)										
Saunders	June 5	3.3	69.2	46.3	4.4	----	57.2	103.9	9.2	0.33**
Webster No-Till	June 7	3.2	71.0	43.5	4.7	----	52.5	87.8	14.0	0.18
Webster Till (16 entries) ^{3/}	June 7	3.2	(71.8)	(42.5)	(4.8)	----	(50.7)	(73.4)	(14.1)	(0.48**)
Clay (irrigated)	June 2	2.2	69.2	51.4	4.3	92.4	43.4	113.6	14.1	0.50**
Average (3 locations)	----	---	69.8	47.1	4.5	----	51.0	101.8	----	0.44**
Zone B (74 entries)										
Lincoln ^{4/}	June 7	4.0	84.1	45.1	---	34.3	----	27.9	48.0	-0.92**
Zone C (44 entries)										
Cheyenne ^{5/}	May 20	4.8	92.1	47.2	---	21.5	43.2	53.6	30.7	0.12
Morrill (irrigated) ^{6/}	May 20	4.0	----	40.8	---	----	46.5	76.5	21.8	-0.49**

^{1/} Live seed basis. All row spacing 30 inches.

^{2/} Correlation of days to bloom for zone with acre grain yield. Higher r values indicate closer agreement. **highly significant (1% level).

^{3/} Not included in averages.

^{4/} Variable stands and yields. Data not included in period-of-years averages.

^{5/} Severe bird damage. Expecially heavy on early hybrids. Yield and other data not included in period-of-years averages.

^{6/} Maturity for correlation based on Cheyenne County.

Table E. Grain Sorghum. Average performance by years. Entries common over years by zones. 1977-1982.

Zone and year	Planting bloom days	Plant height in.	Head exsertion in.	Early grain moisture %	Stalk lodging %	Test weight lb/bu	Grain yield bu/A
Zone A (15 entries)							
1978	74.4	46.1	4.3	----	0.5	55.5	123.6
1979	74.4	44.2	4.5	25.0	2.8	58.6	137.9
1980	68.9	40.7	3.3	27.4	----	58.9	111.7
1981	66.9	46.1	3.8	30.2	12.7	57.2	113.0
1982	70.1	46.7	4.6	28.2	----	50.4	99.0
Five-year average	70.9	44.7	4.2	27.7	5.3	56.1	116.9
Zone B (7 entries) ^{1/}							
1977	67.8	43.0	---	----	8.1	58.2	91.3
1978	74.9	34.9	---	----	23.1	56.9	52.7
1979	75.3	46.0	---	----	62.1	55.9	62.8
1980	74.0	39.7	---	----	----	54.2	78.3
1981	68.3	48.7	---	----	10.9	59.1	92.7
Five-year average	72.1	42.6	---	----	26.1	56.9	75.6
Zone C (4 entries) ^{2/}							
1977	70.8	37.2	---	----	15.8	55.9	40.6
1978	87.3	41.9	---	22.2	3.5	49.2	41.7
1979	81.4	37.1	---	----	----	53.3	49.8
1980	70.2	37.8	---	11.4	7.0	56.4	31.6
1981	97.8	43.3	---	21.3	----	53.2	77.5
Five-year average	81.5	39.5	---	18.3	9.0	53.6	48.3

^{1/} No 1982 data - poor stands, high plot variability.

^{2/} No 1982 data - differential bird damage.

TABLE 1a. ZONE A. SUMMARY, SAUNDERS, WEBSTER, AND CLAY (IRR) COUNTIES, 1982

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
AVERAGE THREE LOCATIONS								
-----	NE EXP 793677	64	45	4	24	•	49.1	78
CENEX	310T	64	50	6	22	•	53.7	108
GOLD TAG	GT 475	64	49	5	24	•	53.9	91
MC CURDY	M637	64	50	5	24	•	52.9	98
-----	NE EXP 793693	65	44	6	27	•	49.2	93
-----	NE EXP 793694	65	44	6	26	•	48.9	87
AGRIGOLD	AG-255	65	49	6	23	•	51.5	104
ASGROW	CORRAL	65	50	6	26	•	54.5	101
GOLDEN ACRES	T-E Y-45-G	65	49	6	26	•	52.1	99
KELTGEN	KG63T	65	49	6	26	•	53.2	102
MIGRO	TEK 1055R	65	48	5	23	•	53.2	97
NC+	160	65	50	6	26	•	53.7	96
STAUFFER SEEDS	535	65	51	5	23	•	54.4	100
WAC	652G	65	49	5	25	•	52.6	105
WARNER	W-655T	65	49	5	24	•	52.6	105
WILSON	617G	65	49	5	24	•	51.8	102
-----	NE EXP 793691	66	43	4	26	•	48.3	90
-----	RS 626	66	46	4	30	•	49.1	95
FONTANELLE	5537	66	49	4	26	•	53.6	100
JACQUES	308	66	48	5	27	•	54.4	103
PAG	EXP. 91008	66	46	4	26	•	52.8	91
WARNER	W-686DR	66	52	5	25	•	52.7	102
-----	NE EXP 793692	67	41	4	30	•	48.1	88
DEKALB	DK-58	67	48	4	25	•	54.4	111
FUNK	G-1560	67	43	4	27	•	52.0	99
ASGROW	H796	68	47	5	29	•	48.4	101
DEKALB	DK-64	68	52	5	27	•	54.0	115
GOLDEN ACRES	T-E Y-45	68	49	5	28	•	49.2	94
MC CURDY	51YG	68	47	5	29	•	46.8	90
NORTHROP KING	NK 2244	68	44	5	28	•	50.5	99
-----	MARTIN	69	44	6	26	•	53.4	92
-----	NE EXP 793695	69	42	5	26	•	47.5	87
CARGILL	60	69	45	5	27	•	47.4	93
FUNK	G-550	69	49	4	32	•	52.1	111
GOLD TAG	GT 565	69	45	4	24	•	50.5	99
JACQUES	404	69	47	5	30	•	48.8	93
PAG	5514	69	46	4	27	•	47.7	92
PAYMASTER	DG 1195	69	48	4	26	•	52.4	104
PFIZER GENETICS	M56G	69	47	5	27	•	48.9	93
STAUFFER SEEDS	677	69	48	4	29	•	54.1	116
AGRIGOLD	AG-336	70	45	5	27	•	50.9	104
ASGROW	MUSTANG	70	44	4	28	•	53.4	107
CARGILL	55	70	49	6	29	•	52.3	103
CENEX	405T	70	45	5	27	•	51.3	95
GROWERS	GSA 1310A	70	44	5	26	•	50.9	102
HORIZON	101G	70	45	4	27	•	51.4	91
HORIZON	104G	70	51	5	29	•	53.7	110
MIGRO	TEK EXP 8096	70	45	3	32	•	49.2	84
MIGRO	TEK 1094R	70	45	5	27	•	50.2	97
MIGRO	TEK 35R	70	46	4	25	•	47.3	97
NORTHROP KING	NK 2300	70	45	5	32	•	51.7	102
PFIZER GENETICS	M568G	70	45	5	28	•	50.0	96
STAUFFER SEEDS	708	70	50	5	28	•	53.6	111
STAUFFER SEEDS	734	70	44	4	27	•	51.1	103
WARNER	W-839A	70	46	4	27	•	51.7	97

CONTINUED.

TABLE 1a. CONCLUDED.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
AVERAGE THREE LOCATIONS								
WILSON	621G	70	44	5	26	•	51.1	98
ASGROW	H802	71	46	4	25	•	52.7	104
CARGILL	70	71	45	5	31	•	51.5	91
DEKALB	DK-42Y	71	48	4	34	•	50.6	101
DEKALB	DK-57	71	50	4	40	•	52.5	109
FONTANELLE	5583	71	48	5	32	•	49.0	112
GOLDEN ACRES	T-E Y101-G	71	45	4	24	•	51.4	97
JACQUES	505	71	46	4	29	•	51.5	105
KELTGEN	KG70A	71	46	5	27	•	50.4	98
MC CURDY	M737	71	44	5	29	•	50.2	97
NC+	172	71	45	5	26	•	51.3	97
O'S GOLD	GS 5100	71	44	4	26	•	51.0	96
PAYMASTER	1099	71	44	4	32	•	52.5	102
WAC	692G	71	44	4	26	•	50.5	99
WARNER	W-839DR	71	47	4	26	•	50.0	107
-----	NE EXP 793696	72	48	5	34	•	49.0	100
AGRIGOLD	AG-355	72	47	4	22	•	48.8	108
ASGROW	TCPAZ	72	48	5	26	•	54.1	115
DEKALB	DK-61	72	49	4	29	•	50.3	110
GOLDEN ACRES	T-E Y-80	72	43	4	29	•	51.2	99
GOLDEN ACRES	T-E Y101-R	72	46	4	30	•	48.7	94
GROWERS	SG 39DMR	72	46	4	28	•	50.9	101
KELTGEN	KG71D	72	48	4	28	•	48.9	101
NC+	271	72	48	5	33	•	52.8	107
NORTHROP KING	NK 2660	72	48	4	30	•	50.7	107
NORTHROP KING	NK 2778	72	49	5	27	•	52.4	105
PAYMASTER	DR 1125	72	48	5	28	•	49.6	113
PFIZER GENETICS	M572G	72	51	3	28	•	52.5	115
WAC	710DR	72	47	5	29	•	51.1	112
WARNER	W-851A	72	42	4	27	•	51.8	98
WILSON	623G	72	47	4	28	•	49.2	109
-----	RS 671	73	50	5	34	•	49.5	100
FONTANELLE	6651	73	48	4	36	•	48.4	111
FUNK	HW2657	73	50	3	29	•	51.1	108
GOLD TAG	GT 585	73	46	4	35	•	49.4	99
MC CURDY	M990	73	47	5	30	•	48.6	106
MC CURDY	57YG	73	49	4	30	•	51.6	117
MIGRO	TEK EXP 8090	73	47	3	31	•	48.7	107
NC+	174	73	48	3	33	•	52.1	106
NC+	178	73	48	5	31	•	53.3	117
PAG	4474	73	47	4	32	•	48.5	105
PAG	5550	73	46	4	36	•	48.9	90
PAYMASTER	GR 1138	73	44	5	34	•	48.5	98
WAC	D701G	73	49	4	32	•	52.5	114
CENEX	410T	74	49	3	33	•	52.1	106
FUNK	HW5449	74	50	5	34	•	50.5	115
GOLDEN ACRES	T-E Y-77	74	50	3	37	•	51.6	107
ORO	ORO G XTRA	74	50	4	37	•	51.3	114
WARNER	W-851DR	74	49	3	37	•	51.5	107
ASGROW	COLT	75	50	3	34	•	52.1	112
DEKALB	DK-59	75	50	4	38	•	47.7	110
O'S GOLD	GS 712	75	50	4	36	•	51.1	109
AVERAGE ALL ENTRIES		69.8	47.1	4.5	28.7	---	51.0	101.8
DIF. REQ. FOR SIG. 5%		2.7	2.6	1.2	6.4	---	2.6	12.3
25%		1.6	1.5	0.7	3.4	---	1.5	7.2

Early grain moisture Saunders County only.

TABLE 1b. ZONE A. SAUNDERS COUNTY. 1982.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
CENEX	310T	62	49	5	22	•	58.3	110
-----	NE EXP 793677	63	43	4	24	•	55.3	85
MC CURDY	M637	62	46	5	24	•	58.0	99
GOLD TAG	GT 475	63	48	4	24	•	58.5	88
GOLDEN ACRES	T-E Y-45-G	64	47	5	26	•	57.8	100
STAUFFER SEEDS	535	63	47	5	23	•	58.4	109
WILSON	617G	63	47	5	24	•	58.4	113
MIGRO	TEK 1055R	64	47	4	23	•	58.4	108
NC+	160	65	49	5	26	•	58.6	108
WAC	652G	63	47	5	25	•	58.2	111
WARNER	W-655T	66	49	6	24	•	58.1	105
-----	NE EXP 793693	66	44	5	27	•	54.5	98
-----	NE EXP 793694	67	42	6	26	•	54.7	89
AGRIGOLD	AG-255	63	48	6	23	•	58.4	107
ASGROW	CORRAL	64	50	6	26	•	59.0	108
KELTGEN	KG63T	66	49	6	26	•	58.3	98
JACQUES	308	66	48	5	27	•	58.3	107
PAG	EXP. 91008	64	45	4	26	•	57.7	87
-----	NE EXP 793691	68	42	4	26	•	55.5	90
-----	RS 626	68	45	4	30	•	56.2	94
FONTANELLE	5537-	66	47	4	26	•	58.3	104
WARNER	W-686DR	68	52	5	25	•	57.2	102
FUNK	G-1560	68	43	4	27	•	57.9	111
-----	NE EXP 793692	68	38	2	30	•	54.5	90
DEKALB	DK-58	68	47	3	25	•	59.2	112
GOLDEN ACRES	T-E Y-45	70	49	6	28	•	55.4	92
MC CURDY	51YG	67	45	5	29	•	54.2	90
NORTHROP KING	NK 2244	70	44	6	28	•	57.9	105
ASGROW	H796	68	45	5	29	•	54.8	102
DEKALB	DK-64	69	53	4	27	•	59.3	121
-----	MARTIN	70	45	6	26	•	58.8	86
-----	NE EXP 793695	70	40	4	26	•	54.2	91
CARGILL	60	66	44	5	27	•	54.7	95
STAUFFER SEEDS	677	68	46	4	29	•	58.8	121
FUNK	G-550	70	48	4	32	•	58.7	110
GOLD TAG	GT 565	67	43	4	24	•	57.2	97
JACQUES	404	67	47	5	30	•	55.3	94
PAG	5514	67	44	4	27	•	54.9	87
PAYMASTER	DG 1195	69	48	4	26	•	58.7	109
PFIZER GENETICS	M56G	67	45	3	27	•	54.0	100
CENEX	405T	69	44	5	27	•	57.5	96
MIGRO	TEK 35R	68	43	4	25	•	53.0	97
NORTHROP KING	NK 2300	71	47	5	32	•	57.7	110
STAUFFER SEEDS	708	69	47	5	28	•	59.2	107
AGRIGOLD	AG-336	67	43	4	27	•	57.1	99
ASGROW	MUSTANG	68	43	4	28	•	57.4	103
CARGILL	55	68	49	6	29	•	58.5	109
GROWERS	GSA 1310A	67	41	4	26	•	57.5	103
WARNER	W-839A	68	44	5	27	•	57.6	98
HORIZON	101G	67	43	4	27	•	58.5	99
HORIZON	104G	68	49	4	29	•	58.8	112
MIGRO	TEK EXP 8096	73	47	3	32	•	55.1	78
MIGRO	TEK 1094R	68	44	4	27	•	58.0	97
PFIZER GENETICS	M568G	67	44	4	28	•	57.4	96
STAUFFER SEEDS	734	68	44	5	27	•	56.8	100

CONTINUED.

TABLE 1b. CONCLUDED.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
WILSON	621G	66	43	4	26	•	57.3	105
DEKALB	DK-42Y	71	46	4	34	•	58.6	102
DEKALB	DK-57	75	50	5	40	•	56.6	100
KELTGEN	KG70A	69	45	5	27	•	57.6	97
O'S GOLD	GS 5100	69	43	4	26	•	56.7	92
WAC	692G	66	42	3	26	•	57.4	101
WARNER	W-839DR	69	48	4	26	•	57.6	110
ASGROW	H802	70	45	5	25	•	59.8	111
JACQUES	505	70	44	4	29	•	57.9	103
MC CURDY	M737	69	42	5	29	•	55.8	95
CARGILL	70	70	45	5	31	•	57.2	93
FONTANELLE	5583	73	48	5	32	•	55.9	111
GOLDEN ACRES	T-E Y101-G	69	44	5	24	•	57.4	100
NC+	172	68	44	4	26	•	57.4	95
PAYMASTER	1099	69	43	3	32	•	58.5	104
-----	NE EXP 793696	73	47	5	34	•	56.7	117
AGRIGOLD	AG-355	70	47	4	22	•	57.5	118
ASGROW	TCPAZ	69	47	4	26	•	59.3	119
NCRTHRUP KING	NK 2778	70	48	5	27	•	58.1	108
PAYMASTER	DR 1125	71	47	5	28	•	57.4	120
WARNER	W-851A	68	41	3	27	•	56.4	96
WILSON	623G	71	46	4	28	•	54.5	102
DEKALB	DK-61	72	48	5	29	•	57.8	108
GOLDEN ACRES	T-E Y-80	70	43	4	29	•	57.2	94
GROWERS	SG 39DMR	72	47	5	28	•	57.2	117
NCRTHRUP KING	NK 2660	72	48	5	30	•	56.8	112
PFIZER GENETICS	M572G	72	49	3	28	•	57.9	121
WAC	710DR	71	47	4	29	•	57.3	115
GOLDEN ACRES	T-E Y101-R	73	47	4	30	•	55.2	93
KELTGEN	KG71D	72	46	4	28	•	56.5	102
NC+	271	71	48	5	33	•	58.8	104
-----	RS 671	74	48	5	34	•	55.4	103
FONTANELLE	6651-	74	48	4	36	•	54.9	98
FUNK	HW2657	71	51	3	29	•	57.5	117
MC CURDY	M990	71	47	5	30	•	56.0	115
MC CURDY	57YG	73	49	4	30	•	58.2	123
MIGRO	TEK EXP 8090	73	46	3	31	•	55.2	111
PAG	4474	73	47	4	32	•	56.0	110
GOLD TAG	GT 535	73	45	4	35	•	55.6	95
NC+	173	73	46	6	31	•	59.6	109
PAG	5550	72	45	4	36	•	55.7	90
PAYMASTER	GR 1133	73	44	5	34	•	56.7	96
WAC	D701G	73	48	3	32	•	57.7	117
NC+	174	74	49	3	33	•	58.2	107
CENEX	410T	73	50	4	33	•	57.3	112
GOLDEN ACRES	T-E Y-77	75	49	3	37	•	57.7	109
ORO	ORO G XTRA	74	51	4	37	•	58.2	119
WARNER	W-851DR	76	51	4	37	•	57.7	123
FUNK	HW5449	75	50	5	34	•	58.0	115
DEKALB	DK-59	76	52	4	38	•	56.3	115
ASGROW	COLT	76	50	3	34	•	57.9	112
O'S GOLD	GS 712	77	51	4	36	•	57.4	115
AVERAGE ALL ENTRIES		69.2	46.3	4.4	28.7		57.2	103.9
DIF. REQ. FOR SIG. 5%		3.7	2.8	1.6	6.4		1.4	13.4
25%		2.2	1.6	0.9	3.8		0.8	7.9

Early grain moisture: October 20-21.

TABLE 1c. ZONE A. WEBSTER COUNTY. NO-TILL. 1982.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
CENEX	310T	65	46	6	.	.	56.3	89
-----	NE EXP 793677	65	41	4	.	.	51.9	63
MC CURDY	M637	66	46	5	.	.	54.2	93
GOLD TAG	GT 475	66	46	6	.	.	55.1	78
GOLDEN ACRES	T-E Y-45-G	66	45	6	.	.	54.0	79
STAUFFER SEEDS	535	67	47	5	.	.	54.8	84
WILSON	617G	67	45	5	.	.	53.4	90
MIGRO	TEK 1055R	67	44	5	.	.	54.5	87
NC+	160	66	46	6	.	.	55.2	87
WAC	652G	68	45	6	.	.	55.5	89
WARNER	W-655T	65	46	4	.	.	55.4	99
-----	NE EXP 793693	65	42	6	.	.	51.9	83
-----	NE EXP 793694	65	43	6	.	.	52.0	78
AGRIGOLD	AG-255	69	45	6	.	.	55.5	84
ASGROW	CORRAL	68	44	5	.	.	55.6	87
KELTGEN	KG63T	66	45	6	.	.	55.6	95
JACQUES	303	67	45	6	.	.	56.1	88
PAG	EXP. 91008	67	44	4	.	.	55.5	79
-----	NE EXP 793691	66	41	4	.	.	52.5	84
-----	RS 626	65	42	3	.	.	50.3	88
FONTANELLE	5537	68	44	5	.	.	55.9	93
WARNER	W-686DR	66	47	4	.	.	53.7	95
FUNK	G-1560	66	41	4	.	.	53.3	89
-----	NE EXP 793692	68	38	5	.	.	50.3	74
DEKALB	DK-58	69	45	5	.	.	55.2	103
GOLDEN ACRES	T-E Y-45	69	46	5	.	.	48.9	75
MC CURDY	51YG	69	44	5	.	.	50.1	86
NORTHRUP KING	NK 2244	70	40	4	.	.	50.9	87
ASGROW	H796	69	43	5	.	.	52.1	92
DEKALB	DK-64	71	46	5	.	.	52.8	90
-----	MARTIN	70	39	7	.	.	55.5	86
-----	NE EXP 793695	68	41	5	.	.	49.9	72
CARGILL	60	70	44	6	.	.	50.1	82
STAUFFER SEEDS	677	72	43	4	.	.	53.9	107
FUNK	G-550	69	44	5	.	.	53.9	104
GOLD TAG	GT 565	71	43	4	.	.	53.6	99
JACQUES	404	71	45	5	.	.	50.0	77
PAG	5514	72	44	4	.	.	47.8	92
PAYMASTER	DG 1195	70	44	5	.	.	53.3	84
PFIZER GENETICS	M56G	70	45	6	.	.	50.2	78
CENEX	405T	69	42	5	.	.	53.4	86
MIGRO	TEK 35R	73	43	4	.	.	48.4	77
NORTHRUP KING	NK 2300	71	42	5	.	.	54.3	93
STAUFFER SEEDS	708	70	44	6	.	.	56.5	98
AGRIGOLD	AG-336	72	44	5	.	.	52.6	90
ASGROW	MUSTANG	71	42	5	.	.	55.5	84
CARGILL	55	72	46	6	.	.	53.8	85
GROWERS	GSA 1310A	72	42	6	.	.	53.4	86
WARNER	W-839A	73	44	4	.	.	54.1	84
HORIZON	101G	73	41	5	.	.	53.0	71
HORIZON	104G	73	45	6	.	.	55.0	97
MIGRO	TEK EXP 8096	71	42	3	.	.	51.5	58
MIGRO	TEK 1094R	72	42	5	.	.	53.2	101
PFIZER GENETICS	M568G	72	42	5	.	.	49.9	86
STAUFFER SEEDS	734	72	41	4	.	.	52.8	81

CONTINUED.

TABLE 1c. CONCLUDED.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
WILSON	621G	74	42	6	•	•	53.4	79
DEKALB	DK-42Y	72	44	4	•	•	52.7	85
DEKALB	DK-57	70	46	4	•	•	53.5	95
KELTGEN	KG70A	72	43	5	•	•	51.1	88
O'S GOLD	GS 5100	73	41	4	•	•	53.2	84
WAC	692G	74	41	5	•	•	53.0	90
WARNER	W-839DR	71	44	4	•	•	51.3	96
ASGROW	H802	72	43	4	•	•	52.7	86
JACQUES	505	72	43	4	•	•	53.0	98
MC CURDY	M737	73	42	5	•	•	53.1	86
CARGILL	70	73	42	5	•	•	54.6	77
FONTANELLE	5583	71	44	4	•	•	52.0	89
GOLDEN ACRES	T-E Y101-G	73	42	4	•	•	52.3	88
NC+	172	74	42	5	•	•	53.4	85
PAYMASTER	1099	73	41	3	•	•	55.1	88
-----	NE EXP 793696	74	44	5	•	•	49.5	85
AGRIGOLD	AG-355	73	44	5	•	•	52.0	88
ASGROW	TOPAZ	74	43	5	•	•	55.4	95
NORTHROP KING	NK 2778	73	45	6	•	•	52.9	78
PAYMASTER	DR 1125	73	44	5	•	•	49.6	99
WARNER	W-851A	75	39	5	•	•	53.1	84
WILSON	623G	73	44	4	•	•	49.3	97
DEKALB	DK-61	74	47	3	•	•	52.4	98
GOLDEN ACRES	T-E Y-80	74	41	4	•	•	52.5	92
GROWERS	SG 39DMR	72	44	3	•	•	55.0	86
NORTHROP KING	NK 2660	73	44	5	•	•	50.8	88
PFIZER GENETICS	M572G	72	45	3	•	•	52.4	98
WAC	710DR	74	42	6	•	•	50.7	95
GOLDEN ACRES	T-E Y101-R	73	42	5	•	•	50.3	75
KELTGEN	KG71D	73	44	6	•	•	51.5	86
NC+	271	73	45	6	•	•	53.8	80
-----	RS 671	73	44	4	•	•	50.6	83
FONTANELLE	6651	72	44	4	•	•	49.7	110
FUNK	HW2657	74	45	4	•	•	50.7	98
MC CURDY	M990	73	44	5	•	•	50.3	86
MC CURDY	57YG	73	45	4	•	•	52.0	98
MIGRO	TEK EXP 8090	73	44	4	•	•	50.8	82
PAG	4474	72	43	4	•	•	47.5	82
GOLD TAG	GT 585	73	43	4	•	•	50.6	84
NC+	178	74	44	4	•	•	53.6	106
PAG	555C	74	41	4	•	•	50.6	85
PAYMASTER	GR 1138	74	43	5	•	•	48.2	85
WAC	D701G	74	44	4	•	•	52.6	101
NC+	174	72	42	4	•	•	52.2	86
CENEX	410T	74	46	2	•	•	52.5	89
GOLDEN ACRES	T-E Y-77	74	45	3	•	•	51.5	87
ORO	ORO G XTRA	74	45	3	•	•	50.6	90
WARNER	W-851DR	71	43	4	•	•	50.2	95
FUNK	HW5449	74	46	5	•	•	53.3	94
DEKALB	DK-59	74	45	4	•	•	47.9	88
ASGROW	COLT	75	47	3	•	•	50.0	89
O'S GOLD	GS 712	75	43	5	•	•	50.6	88
AVERAGE ALL ENTRIES		71.0	43.5	4.7			52.5	87.8
DIF. REQ. FOR SIG. 5%		3.3	2.8	1.6			3.3	17.1
25%		1.9	1.7	0.9			1.9	10.1

TABLE 1d. ZONE A. CLAY COUNTY IRRIGATED. 1982.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
CENEX	310T	64	55	6	•	100	46.6	125
-----	NE EXP 793677	64	51	4	•	80	40.1	85
MC CURDY	M637	64	57	5	•	79	46.6	102
GOLD TAG	GT 475	64	53	6	•	100	48.1	108
GOLDEN ACRES	T-E Y-45-G	64	54	6	•	100	44.4	118
STAUFFER SEEDS	535	64	53	5	•	80	49.9	107
WILSON	617G	64	56	4	•	80	43.6	102
MIGRO	TEK 1055R	64	53	5	•	76	46.7	97
NC+	160	64	56	6	•	78	47.2	94
WAC	652G	64	54	5	•	100	44.2	114
WARNER	W-655T	64	53	5	•	78	44.4	110
-----	NE EXP 793693	65	47	6	•	80	41.1	97
-----	NE EXP 793694	64	48	6	•	65	40.0	94
AGRIGOLD	AG-255	64	53	5	•	100	40.7	120
ASGROW	CORRAL	64	55	6	•	68	49.0	107
KELTGEN	KG63T	64	54	5	•	76	45.7	112
JACQUES	308	64	52	4	•	100	48.9	115
PAG	EXP. 91008	66	50	5	•	100	45.2	108
-----	NE EXP 793691	64	45	5	•	55	36.9	96
-----	RS 626	65	52	5	•	99	40.7	102
FONTANELLE	5537	64	55	4	•	99	46.5	104
WARNER	W-686DR	64	58	5	•	100	47.2	110
FUNK	G-1560	66	46	4	•	91	44.9	97
-----	NE EXP 793692	66	48	6	•	55	39.4	100
DEKALB	DK-53	65	52	4	•	100	48.8	118
GOLDEN ACRES	T-E Y-45	65	52	5	•	98	43.4	115
MC CURDY	51YG	68	51	5	•	95	36.1	95
NORTHRUP KING	NK 2244	64	48	5	•	76	42.8	105
ASGROW	H796	68	53	4	•	100	38.3	110
DEKALB	DK-64	65	58	5	•	100	49.9	133
-----	MARTIN	66	48	4	•	55	46.0	105
-----	NE EXP 793695	68	46	6	•	25	38.5	97
CARGILL	60	70	48	4	•	98	37.4	103
STAUFFER SEEDS	677	66	56	5	•	100	49.6	120
FUNK	G-550	68	55	3	•	100	43.8	119
GOLD TAG	GT 565	69	50	4	•	99	40.6	102
JACQUES	404	70	48	4	•	95	41.2	107
PAG	5514	69	49	4	•	95	40.5	97
PAYMASTER	DG 1195	69	52	3	•	90	45.3	118
PFIZER GENETICS	M56G	71	50	5	•	100	42.4	100
CENEX	405T	71	50	5	•	100	43.0	104
MIGRO	TEK 35R	68	52	4	•	96	40.6	116
NORTHRUP KING	NK 2300	67	47	4	•	98	43.2	104
STAUFFER SEEDS	708	70	58	4	•	100	45.1	129
AGRIGOLD	AG-336	71	48	6	•	100	42.9	123
ASGROW	MUSTANG	71	48	3	•	100	47.3	133✓
CARGILL	55	70	53	5	•	100	44.7	115
GROWERS	GSA 1310A	71	50	5	•	100	41.9	116
WARNER	W-839A	69	49	4	•	100	43.3	109
HORIZON	101G	71	50	4	•	100	42.7	103
HORIZON	104G	70	58	5	•	100	47.3	121
MIGRO	TEK EXP 8096	67	46	4	•	85	40.9	116
MIGRO	TEK 1094R	71	49	5	•	99	39.5	92
PFIZER GENETICS	M568G	72	49	5	•	100	42.6	105
STAUFFER SEEDS	734	71	48	2	•	100	43.8	128

CONTINUED.

TABLE 1d. CONCLUDED.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
WILSON	621G	71	46	4	•	100	42.6	111
DEKALB	DK-42Y	69	53	4	•	99	40.6	116
DEKALB	DK-57	67	55	4	•	99	47.3	133✓
KELTGEN	KG70A	71	50	4	•	99	42.5	109
O'S GOLD	GS 5100	70	48	4	•	100	43.2	111
WAC	692G	72	49	4	•	100	41.2	107
WARNER	W-839DR	72	50	5	•	100	41.1	114
ASGROW	H802	71	51	3	•	98	45.5	116
JACQUES	505	71	52	4	•	100	43.5	114
MC CURDY	M737	71	48	4	•	98	41.7	109
CARGILL	70	71	48	4	•	100	42.6	103
FONTANELLE	5583	70	51	5	•	100	39.1	136✓
GOLDEN ACRES	T-E Y101-G	72	48	3	•	99	44.5	102
NC+	172	72	50	5	•	100	43.0	111
PAYMASTER	1099	72	49	6	•	100	44.0	115
-----	NE EXP 793696	68	54	6	•	78	40.9	99
AGRIGOLD	AG-355	72	51	4	•	90	36.9	119
ASGROW	TOPAZ	72	53	6	•	95	47.7	131✓
NORTHROP KING	NK 2778	72	55	5	•	100	46.2	129
PAYMASTER	DR 1125	71	52	5	•	100	41.8	120
WARNER	W-351A	72	46	4	•	90	45.8	113
WILSON	623G	71	51	4	•	95	43.7	127
DEKALB	DK-61	70	51	3	•	85	40.8	124
GOLDEN ACRES	T-E Y-80	72	46	3	•	98	43.9	111
GROWERS	SG 39DMR	72	46	4	•	100	40.5	100
NORTHROP KING	NK 2660	71	52	2	•	95	44.6	120
PFIZER GENETICS	M572G	72	53	4	•	100	47.1	127
WAC	710DR	71	51	5	•	100	45.2	127
GOLDEN ACRES	T-E Y101-R	71	49	3	•	91	40.6	113
KELTGEN	KG71D	72	53	3	•	76	38.7	114
NC+	271	73	52	5	•	100	45.9	137✓
-----	RS 671	71	57	5	•	93	42.5	114
FONTANELLE	6651	72	52	4	•	93	40.7	125
FUNK	HW2657	73	53	2	•	100	45.2	110
MC CURDY	M990	74	51	4	•	95	39.5	117
MC CURDY	57YG	72	54	3	•	96	44.5	130✓
MIGRO	TEK EXP 8090	72	50	3	•	91	40.2	129
PAG	4474	73	50	3	•	98	41.9	122
GOLD TAG	GT 585	73	51	3	•	86	41.9	118
NC+	178	72	55	5	•	100	46.6	135
PAG	5550	73	51	3	•	70	40.3	96
PAYMASTER	GR 1138	72	44	4	•	94	40.7	112
WAC	D701G	72	54	4	•	95	47.1	123
NC+	174	74	54	3	•	100	46.0	125
CENEX	410T	74	52	3	•	100	46.6	117
GOLDEN ACRES	T-E Y-77	72	55	4	•	99	45.7	125
ORD	ORD G XTRA	73	53	4	•	89	45.1	132✓
WARNER	W-851DR	74	53	2	•	99	46.6	103
FUNK	HW5449	73	53	4	•	65	40.3	136✓
DEKALB	DK-59	74	52	4	•	91	39.0	127
ASGROW	CCLT	74	54	3	•	100	48.4	134✓
O'S GOLD	GS 712	73	55	4	•	100	45.3	124
AVERAGE ALL ENTRIES		69.2	51.4	4.3		92.4	43.4	113.6
DIF. REQ. FOR SIG. .5%		2.4	4.7	1.9		21.6	5.5	22.3
25%		1.4	2.8	1.1		12.7	3.3	13.1

Lodging data are not included in period-of-years averages.

TABLE 1e. ZONE A. 1981-1982.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
TWO-YEAR AVERAGE								
GOLD TAG	GT 475	63	48	5	26	30	56.0	102
MC CURDY	M637	63	49	5	26	38	55.5	99
MIGRO	TEK 1055R	63	49	6	26	33	56.1	102
WARNER	W-655T	63	49	5	27	40	55.7	106
WILSON	617G	63	49	6	26	8	55.0	105
-----	RS 626	64	47	4	29	38	52.8	90
ASGROW	CORRAL	64	49	6	27	18	56.6	107
GOLDEN ACRES	T-E Y-45-G	64	49	5	28	38	55.2	104
NC+	160	64	50	5	28	23	55.7	104
STAUFFER SEEDS	535	64	50	5	27	20	56.0	107
WAC	652G	64	49	5	27	10	55.6	105
FONTANELLE	5537	65	48	4	27	20	55.9	107
GOLDEN ACRES	T-E Y-45	66	49	5	28	8	52.6	102
NORTHROP KING	NK 2244	66	44	5	28	0	54.0	110
CARGILL	60	67	45	4	28	8	51.2	108
DEKALB	DK-58	67	48	4	30	0	56.7	123
MC CURDY	51YG	67	47	4	30	18	51.8	100
-----	MARTIN	68	44	5	26	35	55.5	85
FUNK	G-550	68	49	4	31	25	54.6	109
MIGRO	TEK 35R	68	46	4	27	10	51.3	104
NORTHROP KING	NK 2300	68	44	4	30	0	54.7	110
PAG	5514	68	45	4	29	0	51.8	105
CENEX	405T	69	45	5	29	0	54.8	110
DEKALB	DK-57	69	49	4	37	0	55.9	118
GOLD TAG	GT 565	69	45	4	27	0	54.1	113
GOLDEN ACRES	T-E Y101-R	69	46	4	31	10	52.2	101
GROWERS	GSA 1310A	69	44	4	29	3	54.5	114
HORIZON	101G	69	44	4	29	0	54.7	112
HORIZON	104G	69	49	5	31	18	55.9	116
MIGRO	TEK 1094R	69	45	5	30	0	53.7	110
PAYMASTER	DG 1195	69	48	4	29	8	55.7	115
PFIZER GENETICS	M568G	69	45	4	29	0	53.9	114
STAUFFER SEEDS	708	69	50	5	31	0	56.4	119
WAC	692G	69	45	5	29	3	54.3	115
WILSON	621G	69	44	4	30	0	54.5	114
ASGROW	MUSTANG	70	44	4	30	0	55.7	119
ASGROW	TOPAZ	70	47	4	28	25	56.9	116
CARGILL	70	70	45	5	32	10	54.8	108
FONTANELLE	5583	70	47	4	31	8	53.1	117
GOLDEN ACRES	T-E Y101-G	70	45	4	27	0	54.8	115
GROWERS	SG 390MR	70	47	4	30	0	54.3	114
MC CURDY	M737	70	44	4	30	0	53.7	113
NC+	172	70	44	5	29	0	54.6	112
NORTHROP KING	NK 2660	70	48	4	31	5	54.4	118
NORTHROP KING	NK 2778	70	49	5	30	0	55.4	118
PAG	4474	70	47	4	32	13	52.3	110
STAUFFER SEEDS	734	70	44	4	30	0	54.6	116
WARNER	W-839A	70	45	4	30	0	54.9	115
-----	RS 671	71	49	4	32	33	52.8	97
MC CURDY	57YG	71	51	3	31	28	55.1	122
NC+	174	71	50	4	33	0	55.2	120
NC+	271	71	48	5	34	0	55.8	121
PAG	5550	71	45	3	35	18	52.7	102
WAC	D701G	71	49	3	33	0	55.2	124
WARNER	W-851DR	71	49	3	35	5	55.2	117
WILSON	623G	71	49	4	30	0	54.1	122
CENEX	410T	72	50	3	33	8	55.5	121
DEKALB	DK-61	72	47	4	31	0	54.7	119
FONTANELLE	6651	72	49	4	36	5	53.5	118
ORO	ORO G XTRA	72	49	3	35	15	54.9	118
PAYMASTER	GR 1138	72	44	4	32	0	52.5	110
DEKALB	DK-59	73	51	5	36	20	52.4	114
ASGROW	COLT	74	50	3	35	0	55.6	126
AVERAGE ALL ENTRIES		68.6	47.2	4.3	30.0	10.4	54.5	111.2
DIF. REQ. FOR SIG. 5%		1.9	N.S.	1.2	5.0	24.8	2.0	16.9
25%		1.1	1.2	0.7	2.9	14.6	1.2	9.8

Lodging data for 1981 only.

TABLE 1f. ZONE A. 1980-1982.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
THREE-YEAR AVERAGE								
-----	RS 626	63	45	3	28	38	54.4	88
MIGRO	TEK 1055R	63	48	6	25	33	57.3	105
WARNER	W-655T	63	47	5	26	40	57.1	110
WILSON	617G	63	48	5	26	8	56.5	108
ASGROW	CORRAL	64	48	6	26	18	57.8	109
GOLDEN ACRES	T-E Y-45	64	47	4	27	8	54.2	100
NC+	160	64	48	5	27	23	56.9	109
WAC	652G	64	47	5	26	10	56.9	110
STAUFFER SEEDS	535	65	48	5	26	20	57.4	112
FONTANELLE	5537	66	45	4	26	20	57.3	113
CARGILL	60	67	43	4	28	8	53.4	108
DEKALB	DK-58	67	46	4	29	0	58.1	125
MC CURDY	51YG	67	45	4	29	18	54.0	102
-----	MARTIN	68	42	4	25	35	56.4	76
DEKALB	DK-57	68	47	4	35	0	57.2	120
FUNK	G-550	68	47	4	30	25	56.5	112
MIGRO	TEK 35R	68	44	4	27	10	53.6	107
PAG	5514	68	43	4	28	0	54.1	107
GOLDEN ACRES	T-E Y101-R	69	44	4	29	10	53.9	108
HORIZON	104G	69	48	4	31	18	57.3	122
-----	RS 671	70	46	3	30	33	54.5	102
ASGROW	MUSTANG	70	43	3	29	0	57.1	118
ASGROW	TCPAZ	70	45	4	28	25	58.5	122
GROWERS	GSA 1310A	70	43	4	29	3	56.2	119
GROWERS	SG 39DMR	70	45	4	29	0	55.9	117
HORIZON	101G	70	42	4	29	0	56.5	115
MIGRO	TEK 1094R	70	43	4	29	0	55.9	117
NC+	172	70	43	4	29	0	56.5	116
PAG	4474	70	45	3	31	13	54.5	112
PFIZER GENETICS	M568G	70	44	4	28	0	56.1	117
STAUFFER SEEDS	708	70	47	4	31	0	57.8	122
STAUFFER SEEDS	734	70	43	4	30	0	56.4	119
WAC	692G	70	44	4	29	3	56.1	120
WARNER	W-839A	70	43	4	29	0	56.5	116
WILSON	621G	70	43	4	29	0	56.4	121
CARGILL	70	71	44	4	31	10	56.4	113
NC+	174	71	47	3	33	0	56.8	129
NORTHROP KING	NK 2778	71	47	5	30	0	56.7	120
PAYMASTER	DG 1195	71	45	4	30	8	57.3	117
WAC	D701G	71	47	3	32	0	56.6	124
WILSON	623G	71	47	3	31	0	56.1	124
NC+	271	72	47	5	33	0	57.4	120
ORC	ORO G XTRA	72	48	3	34	15	56.7	122
WARNER	W-851DR	72	48	3	35	5	56.8	120
DEKALB	DK-59	73	48	4	36	20	54.4	117
DEKALB	DK-61	73	46	4	33	0	56.2	116
ASGROW	COLT	75	48	3	37	0	57.1	128
AVERAGE ALL ENTRIES		68.7	45.6	4.0	29.5	10.1	56.2	113.9
DIF. REQ. FOR SIG. 5%		2.0	1.8	0.9	3.6	24.8	1.5	13.2
25%		1.2	1.0	0.5	2.1	14.6	0.9	7.7

Lodging data for 1981 only.

TABLE 1g. ZONE A. 1978-1982.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
FOUR-YEAR AVERAGE								
WARNER	W-655T	64	47	5	24	21	57.9	119
-----	RS 626	65	45	4	25	20	55.2	93
MIGRO	TEK 1055R	65	48	6	25	19	58.0	117
ASGROW	CORRAL	66	48	6	25	10	58.4	117
GOLDEN ACRES	T-E Y-45	66	47	5	26	6	54.9	109
STAUFFER SEEDS	535	66	48	5	25	13	58.1	119
CARGILL	60	69	43	4	27	6	54.4	114
MC CURDY	51YG	69	44	4	28	10	54.8	113
MIGRO	TEK 35R	69	44	4	27	6	54.6	114
PAG	5514	69	43	4	28	1	54.8	115
-----	MARTIN	70	42	5	22	20	57.1	78
DEKALB	DK-57	70	47	4	32	1	57.8	125
GOLDEN ACRES	T-E Y101-R	70	43	4	28	7	54.6	119
-----	RS 671	71	47	4	29	18	55.4	110
ASGROW	MUSTANG	71	43	4	29	1	57.8	125
GROWERS	GSA 1310A	71	43	4	28	3	57.1	124
HORIZON	104G	71	48	5	32	10	58.0	129
PAG	4474	71	45	4	29	8	55.2	121
PFIZER GENETICS	M568G	71	43	4	28	1	57.0	123
ASGROW	TCPAZ	72	45	4	28	14	59.0	129
CARGILL	70	72	43	4	30	7	57.1	121
HORIZON	101G	72	42	4	28	1	57.4	123
NC+	172	72	43	4	28	1	57.2	123
NORTHRUP KING	NK 2778	72	47	5	30	2	57.5	128
STAUFFER SEEDS	708	72	48	4	30	1	58.5	130
STAUFFER SEEDS	734	72	43	4	29	1	57.1	125
ORO	ORO G XTRA	73	48	3	32	9	57.2	131
DEKALB	DK-61	74	46	4	32	1	57.0	124
ASGROW	COLT	76	48	3	36	1	57.0	134
AVERAGE ALL ENTRIES		70.0	45.2	4.3	28.3	7.6	56.8	119.0
DIF. REQ. FOR SIG. 5%		1.9	1.5	0.8	3.3	N.S.	1.3	11.5
25%		1.1	0.8	0.5	1.9	N.S.	0.7	6.7
FIVE-YEAR AVERAGE								
-----	RS 626	67	45	4	25	14	55.2	96
GOLDEN ACRES	T-E Y-45	67	47	5	26	4	54.9	110
-----	MARTIN	70	43	5	22	13	56.9	80
MC CURDY	51YG	70	44	4	28	7	54.9	116
MIGRO	TEK 35R	70	44	4	27	4	54.6	116
GOLDEN ACRES	T-E Y101-R	71	43	4	28	5	54.2	121
PAG	5514	71	43	4	28	1	54.9	116
-----	RS 671	72	47	4	29	12	55.1	111
ASGROW	MUSTANG	72	43	4	29	1	57.7	126
ASGROW	TCPAZ	72	45	4	28	9	58.7	131
HORIZON	101G	72	43	4	28	1	57.4	125
NC+	172	72	43	4	28	1	57.1	123
PAG	4474	72	45	4	29	5	55.1	122
NORTHRUP KING	NK 2778	73	47	5	30	1	57.3	130
STAUFFER SEEDS	708	73	48	4	30	1	58.1	131
AVERAGE ALL ENTRIES		70.9	44.7	4.2	27.7	5.3	56.1	116.9
DIF. REQ. FOR SIG. 5%		1.7	1.2	0.7	3.1	N.S.	1.1	10.7
25%		1.0	0.7	0.4	1.8	N.S.	0.6	6.3

Lodging data for 1978, 1979, 1981.
No early moisture data for 1978.

TABLE 1h. ZONE A. WEBSTER COUNTY TILL. 1982.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
-----	RS 626	66	42	5	•	•	47.4	62
GOLDEN ACRES	T-E Y-45	68	43	4	•	•	53.9	63
-----	MARTIN	70	41	5	•	•	55.3	59
MC CURDY	51YG	70	45	6	•	•	48.2	74
PAG	5514	70	42	5	•	•	49.9	72
ASGROW	MUSTANG	72	43	4	•	•	53.5	83
GOLDEN ACRES	T-E Y101-R	72	42	5	•	•	48.4	79
STAUFFER SEEDS	708	72	44	5	•	•	55.4	94
-----	RS 671	73	42	7	•	•	46.6	65
ASGROW	TOPAZ	73	42	4	•	•	53.2	80
HORIZON	101G	73	43	4	•	•	51.8	76
NC+	172	73	41	5	•	•	52.5	79
NORTHRUP KING	NK 2778	74	45	4	•	•	52.8	83
PAG	4474	73	40	4	•	•	47.1	66
MIGRO	TEK 35R	74	41	4	•	•	44.6	64
ASGROW	COLT	76	44	5	•	•	50.1	75
AVERAGE ALL ENTRIES		71.8	42.5	4.8			50.1	73.4
DIF. REQ. FOR SIG. 5%		2.9	N.S.	N.S.			4.4	14.7
25%		1.7	N.S.	3.0			2.6	8.5

TABLE 2a. ZONE B. LINCOLN COUNTY. 1982.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	STALK LODGE PCT	GRAIN YIELD BU/A
-----	RS 626	77	46	69	53
CARGILL	30	77	46	57	46
WARNER	W-655T	77	47	82	53
FONTANELLE	5547	78	44	75	56
GOLDEN ACRES	T-E Y-45	78	43	97	39
MC CURDY	M444	78	41	61	51
NC+	160	78	47	85	54
CENEX	310T	79	48	87	59
FONTANELLE	4455	79	46	59	32
FONTANELLE	5537	79	45	61	34
FUNK	G-1560	79	42	56	43
GOLDEN ACRES	T-E Y-45-G	79	47	74	47
JACQUES	308	79	47	79	48
MC CURDY	M637	79	46	61	46
MC CURDY	89YG	79	43	93	43
MIGRO	TEK 1055R	79	47	64	40
PFIZER GENETICS	M550G	79	49	66	61
WAC	652G	79	49	63	44
WARNER	W-686DR	79	50	78	53
WILSON	617G	79	49	74	55
ASGROW	CORRAL	80	46	83	71
CARGILL	40	80	42	65	37
DEKALB	DK-58	80	45	34	49
NORTHRUP KING	NK 2030	80	42	33	37
O'S GOLD	GS 709	80	47	79	56
PFIZER GENETICS	EXP 8055	80	44	56	44
STAUFFER SEEDS	535	80	47	60	41
-----	MARTIN	81	45	16	32
-----	NE EXP 793691	81	41	11	36
DEKALB	DK-42	81	41	52	56
FUNK	G-550	81	42	38	35
PAYMASTER	GR 1018	81	42	24	46
-----	NE EXP 793694	82	42	9	44
DEKALB	EXP. 241	82	47	17	36
NORTHRUP KING	NK 2244	83	45	47	30
PAYMASTER	GR 1030	83	42	39	33
DEKALB	DK-42Y	85	41	11	14
GOLDEN ACRES	T-E Y101-R	85	45	12	15
MC CURDY	51YG	85	44	41	26
JACQUES	404	86	46	13	14

CONTINUED.

TABLE 2a. CONCLUDED.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	STALK LODGE PCT	GRAIN YIELD BU/A
NORTHROP KING	NK 2300	86	44	17	18
PAYMASTER	DR 1075	86	46	11	22
-----	RS 671	87	48	28	19
CARGILL	60	87	43	5	14
ORD	ORD G	87	44	9	9
PAG	4474	87	44	5	10
PAG	5514	87	46	21	13
STAUFFER SEEDS	708	87	46	6	10
STAUFFER SEEDS	734	87	45	1	17
WAC	D701G	87	47	23	12
WAC	692G	87	44	16	19
-----	NE EXP 793696	88	45	10	8
ASGROW	H796	88	45	21	20
GOLDEN ACRES	T-E DINERO-R	88	45	8	15
GOLDEN ACRES	T-E Y101-G	88	45	6	15
O'S GOLD	GS 5100	88	45	2	5
PAG	5550	88	43	0	8
WARNER	W-839A	88	42	4	3
ASGROW	MUSTANG	89	45	2	4
CENEX	405T	89	46	3	5
FUNK	G-611	89	45	17	11
O'S GOLD	GS 712	89	46	35	8
ORD	ORD DOUBLE XTRA	89	45	28	7
-----	NE EXP 793695	90	42	2	4
CARGILL	55	90	46	10	9
GROWERS	GSA 1310A	90	44	5	9
GROWERS	SG 39DMR	90	48	19	12
HORIZON	104G	90	47	2	6
WARNER	W-851DR	90	44	1	2
ASGROW	TOPAZ	91	46	14	8
WARNER	W-851A	91	46	10	13
CENEX	410T	92	47	10	9
HORIZON	101G	92	43	3	7
ASGROW	H802	94	46	6	6
AVERAGE ALL ENTRIES		84.1	45.0	34.3	27.9
DIF. REQ. FOR SIG. 5%		2.9	3.9	27.2	18.6
25%		1.7	2.3	16.0	11.0

Poor emergence.

Data from 17 of original 91 entries discarded because of inadequate stands in plot or bordering plots.

These data are not included in period-of-years averages.

TABLE 2b. ZONE B. 1980-1981. NO 1982 DATA.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
TWO-YEAR AVERAGE								
-----	NB 505	65	44	•	•	21	55.4	69
CARGILL	30	68	45	•	•	4	57.1	86
-----	RS 626	69	45	•	•	19	55.9	86
NORTHROP KING	NK 2030	69	40	•	•	2	57.0	87
STAUFFER SEEDS	535	69	47	•	•	9	58.1	101
WARNER	W-655T	69	47	•	•	6	57.6	98
ASGROW	CORRAL	70	48	•	•	12	57.8	101
FONTANELLE	5547	70	48	•	•	15	58.7	96
GOLDEN ACRES	T-E Y-45	70	48	•	•	11	56.2	85
MC CURDY	89YG	70	46	•	•	14	57.6	91
MIGRO	TEK 1055R	70	47	•	•	13	59.4	104
NC+	160	70	48	•	•	4	59.4	95
WAC	652G	70	48	•	•	8	57.6	101
PFIZER GENETICS	M550G	71	48	•	•	9	57.5	102
-----	MARTIN	72	44	•	•	7	57.8	62
DEKALB	DK-57	72	45	•	•	2	57.3	100
FONTANELLE	5537	72	45	•	•	4	58.6	97
MIGRO	TEK 14R	72	51	•	•	11	59.5	98
CARGILL	60	73	42	•	•	5	57.5	93
DEKALB	DK-42Y	73	44	•	•	0	58.6	104
DEKALB	DK-58	73	46	•	•	4	57.6	96
GOLDEN ACRES	T-E Y101-R	73	43	•	•	1	57.4	96
PAG	5514	73	43	•	•	3	56.0	99
-----	RS 671	75	44	•	•	11	56.3	97
ASGROW	TOPAZ	75	44	•	•	1	57.8	101
PAG	4474	75	44	•	•	1	56.4	101
GOLDEN ACRES	T-E DINERO-R	76	45	•	•	5	56.3	102
GROWERS	GSA 1310A	76	42	•	•	0	56.9	103
GROWERS	SG 39DMR	76	45	•	•	4	57.1	101
HORIZON	101G	76	41	•	•	1	56.4	92
WAC	D701G	76	48	•	•	7	55.8	108
WAC	692G	76	43	•	•	1	57.8	103
ASGROW	MUSTANG	77	42	•	•	0	57.4	91
CARGILL	70	77	43	•	•	1	56.3	93
AVERAGE ALL ENTRIES		72.3	45.1	---	---	6.4	57.4	95.3
DIF. REQ. FOR SIG. 5%		2.7	2.2	---	---	8.0	2.2	10.6
25%		1.5	1.3	---	---	4.7	1.3	6.1

Lodging 1981 only.

TABLE 2c. ZONE B. 1977-1981. NO 1982 DATA.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
THREE-YEAR AVERAGE								
-----	NB 505	67	45	•	•	49	55.4	68
-----	RS 626	71	45	•	•	41	56.3	78
CARGILL	30	71	45	•	•	41	57.8	84
NORTHROP KING	NK 2030	71	41	•	•	20	57.3	83
STAUFFER SEEDS	535	71	47	•	•	51	57.7	91
ASGROW	CORRAL	72	47	•	•	53	57.8	91
FONTANELLE	5547	72	48	•	•	36	58.8	89
GOLDEN ACRES	T-E Y-45	72	47	•	•	38	55.2	76
MC CURDY	89YG	72	46	•	•	34	56.4	79
MIGRO	TEK 1055R	72	47	•	•	57	58.6	90
PFIIZER GENETICS	M550G	72	48	•	•	53	57.7	93
WARNER	W-655T	72	46	•	•	41	57.6	87
-----	MARTIN	73	45	•	•	32	57.9	61
DEKALB	DK-57	73	46	•	•	36	57.9	98
MIGRO	TEK 14R	73	50	•	•	49	58.7	87
CARGILL	60	74	43	•	•	37	56.4	85
GOLDEN ACRES	T-E Y101-R	74	45	•	•	23	57.3	84
PAG	5514	75	42	•	•	33	55.7	87
-----	RS 671	76	46	•	•	43	55.9	88
ASGROW	TOPAZ	76	45	•	•	34	58.5	91
PAG	4474	76	43	•	•	14	56.6	93
HORIZON	101G	77	42	•	•	28	57.0	83
ASGROW	MUSTANG	78	43	•	•	23	57.6	80
CARGILL	70	78	44	•	•	27	56.9	88
AVERAGE ALL ENTRIES		73.3	45.3	---	---	37.2	57.2	84.8
DIF. REQ. FOR SIG. 5%		2.2	2.4	---	---	N.S.	2.2	12.0
25%		1.3	1.4	---	---	14.2	1.3	7.0
FOUR-YEAR AVERAGE								
-----	NB 505	67	43	•	•	49	56.1	63
STAUFFER SEEDS	535	71	45	•	•	50	57.7	84
-----	RS 626	72	42	•	•	38	56.3	72
GOLDEN ACRES	T-E Y-45	72	45	•	•	33	55.5	71
MC CURDY	89YG	72	43	•	•	32	56.5	72
PFIIZER GENETICS	M550G	72	45	•	•	45	57.7	83
MIGRO	TEK 14R	73	47	•	•	48	58.5	79
-----	MARTIN	74	43	•	•	25	58.0	59
PAG	5514	75	40	•	•	28	55.8	82
GOLDEN ACRES	T-E Y101-R	76	41	•	•	19	57.1	75
PAG	4474	76	41	•	•	15	56.5	84
-----	RS 671	77	43	•	•	34	55.9	80
ASGROW	TOPAZ	77	42	•	•	24	58.5	79
HORIZON	101G	77	40	•	•	27	57.2	77
ASGROW	MUSTANG	78	41	•	•	20	57.7	74
AVERAGE ALL ENTRIES		73.9	42.7	---	---	32.5	57.0	75.6
DIF. REQ. FOR SIG. 5%		2.1	2.3	---	---	17.2	1.7	10.4
25%		1.2	1.2	---	---	9.8	1.0	6.0
FIVE-YEAR AVERAGE								
-----	NB 505	65	43	•	•	39	56.9	66
MC CURDY	89YG	70	44	•	•	27	56.9	78
-----	RS 626	71	42	•	•	31	56.8	74
-----	MARTIN	73	43	•	•	20	58.4	61
GOLDEN ACRES	T-E Y101-R	75	42	•	•	17	57.0	82
PAG	5514	75	41	•	•	22	56.1	86
-----	RS 671	76	43	•	•	27	56.1	82
AVERAGE ALL ENTRIES		72.1	42.6	---	---	26.1	56.9	75.6
DIF. REQ. FOR SIG. 5%		1.9	N.S.	---	---	10.3	N.S.	11.5
25%		1.1	1.1	---	---	5.8	0.9	6.6

Lodging--no 1980 data.

TABLE 3a. ZONE C. CHEYENNE COUNTY NONIRRIGATED. 1982.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	BIRD DAMAGE PCT	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
-----	RS 455	77	54	34	19	58	53.1	32
-----	NE EXP 793672	78	60	89	16	70	40.0	22
DEKALB	EXP. 233	79	44	66	19	24	38.5	19
NORTHROP KING	NK 1210	80	42	87	21	2	38.9	32
DEKALB	DK-28	85	41	54	22	4	43.5	53
-----	NE EXP 793673	87	50	51	24	30	45.2	39
-----	NE EXP 793676	87	54	54	23	43	48.1	37
CARGILL	22	87	44	46	22	8	50.5	54
DEKALB	DK-38	87	54	66	22	60	43.5	37
WARNER	WX-9181	89	44	27	26	2	44.3	72
-----	NE EXP 793674	89	46	68	24	33	50.2	40
PFIZER GENETICS	M518G	89	42	54	23	0	44.6	61
STAUFFER SEEDS	515	89	40	36	23	0	50.4	82
FUNK	G-1350	90	43	28	24	48	51.8	53
CARGILL	30	92	47	54	29	22	40.1	40
FONTANELLE	3345	92	49	20	29	50	47.2	70
MC CURDY	M444	92	44	16	27	10	48.3	84
MIGRO	TEK EXP 2008	92	45	30	28	10	47.5	67
WARNER	WX-9183	92	45	38	26	14	48.5	72
ASGROW	CORRAL	93	50	24	27	50	47.1	71
MC CURDY	89YG	93	49	30	27	20	44.3	75
MIGRO	TEK 1011R	93	44	14	27	10	48.8	82
FUNK	HW5521	94	51	18	33	42	42.2	61
GOLD TAG	GT 335	94	51	71	26	36	35.6	33
GOLD TAG	GT 475	94	48	14	42	26	43.8	51
GOLDEN ACRES	T-E Y-44-R	94	44	31	29	4	45.3	69
GOLDEN ACRES	T-E Y-45-G	94	50	11	33	20	44.8	67
NORTHROP KING	NK 1580	94	45	16	27	12	48.9	79
TERRA	HT-40G	94	44	26	30	6	44.5	54
WARNER	W-655T	94	50	12	27	28	46.0	73
GOLDEN ACRES	T-E Y-45	95	49	30	28	10	38.4	58
MIGRO	TEK 1021R	95	47	14	39	18	44.2	64
NC+	160	95	50	8	28	34	46.2	78
ORO	ORO PRONTO	95	49	56	32	26	35.4	40
STAUFFER SEEDS	535	95	50	16	30	30	44.1	60
WARNER	W-684DR	95	47	12	32	4	41.3	63
TERRA	HT-45G	96	43	12	41	4	33.6	50
CARGILL	40	97	46	14	35	10	41.0	54
MIGRO	TEK 14R	97	51	26	28	26	42.4	52
STAUFFER SEEDS	530	97	48	6	44	10	40.3	53
TERRA	EXPERIMENTAL 3191	98	43	6	39	0	40.5	30
CARGILL	55	104	48	6	52	32	33.4	27
CARGILL	60	105	45	2	50	0	29.8	36
HORTON	101G	107	45	0	49	0	25.1	14
AVERAGE ALL ENTRIES		92.1	47.2	31.7	29.6	21.5	43.2	53.6
DIF. REQ. FOR SIG. 5%		3.1	2.2	26.2	8.7	21.0	5.6	20.7
25%		1.8	1.3	15.3	5.1	12.3	3.3	12.1

Early moisture is moisture at harvest on October 15.

Bird damage is visual estimate. Such estimates are highly variable.

These data are not included in period-of-years averages.

TABLE 3b. ZONE C. 1977-1981. NO 1982 DATA.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
TWO-YEAR AVERAGE								
-----	RS 455	77	46	•	14	8	56.0	44
NORTHROP KING	NK 1210	81	37	•	15	6	56.2	64
-----	NB 505	82	40	•	14	18	56.6	51
STAUFFER SEEDS	515	84	38	•	15	2	55.7	64
		87	35	•	18	0	55.0	60
CARGILL	30	89	40	•	20	0	54.4	64
GOLDEN ACRES	T-E Y-44-R	90	37	•	21	0	53.7	67
MIGRO	TEK 1011R	90	37	•	19	2	55.3	63
MC CURDY	89YG	91	39	•	19	0	52.3	72
GOLDEN ACRES	T-E Y-45	93	39	•	22	0	50.6	59
MIGRO	TEK 14R	94	42	•	23	0	54.0	70
AVERAGE ALL ENTRIES		87.1	39.1	---	18.2	3.3	54.5	61.6
DIF. REQ. FOR SIG.	5%	4.2	3.3	---	N.S.	9.5	N.S.	N.S.
	25%	2.3	1.8	---	3.6	5.6	3.1	6.2
FOUR-YEAR AVERAGE								
-----	RS 455	77	44	•	15	6	55.4	44
		83	37	•	17	4	54.3	59
-----	NB 505	83	39	•	15	11	56.6	49
GOLDEN ACRES	T-E Y-44-R	93	37	•	24	0	47.6	54
GOLDEN ACRES	T-E Y-45	94	39	•	26	0	45.6	49
MIGRO	TEK 14R	95	40	•	26	0	50.0	53
AVERAGE ALL ENTRIES		87.5	39.3	---	20.5	3.5	51.6	51.3
DIF. REQ. FOR SIG.	5%	3.7	2.5	---	6.0	N.S.	5.1	N.S.
	25%	2.1	1.4	---	3.3	5.7	2.9	N.S.
THREE-YEAR AVERAGE								
-----	RS 455	75	44	•	14	8	56.3	43
-----	NB 505	82	39	•	14	18	57.0	51
		83	37	•	15	2	55.6	64
CARGILL	30	90	38	•	20	0	53.1	55
MIGRO	TEK 1011R	91	36	•	19	2	54.2	56
GOLDEN ACRES	T-E Y-44-R	92	37	•	21	0	50.1	57
GOLDEN ACRES	T-E Y-45	93	38	•	22	0	48.2	53
MIGRO	TEK 14R	94	40	•	23	0	51.4	57
AVERAGE ALL ENTRIES		87.5	38.6	---	18.5	3.8	53.2	54.5
DIF. REQ. FOR SIG.	5%	4.3	2.9	---	N.S.	9.5	5.3	N.S.
	25%	2.4	1.6	---	3.2	5.6	3.0	N.S.
FIVE-YEAR AVERAGE								
-----	RS 455	74	43	•	15	6	55.6	44
		80	37	•	17	11	54.8	54
-----	NB 505	80	39	•	15	18	56.8	46
GOLDEN ACRES	T-E Y-45	92	39	•	26	1	47.1	49
AVERAGE ALL ENTRIES		81.5	39.5	---	18.3	9.0	53.6	48.3
DIF. REQ. FOR SIG.	5%	2.5	2.3	---	6.8	N.S.	4.1	N.S.
	25%	1.4	1.3	---	3.5	8.0	2.3	N.S.

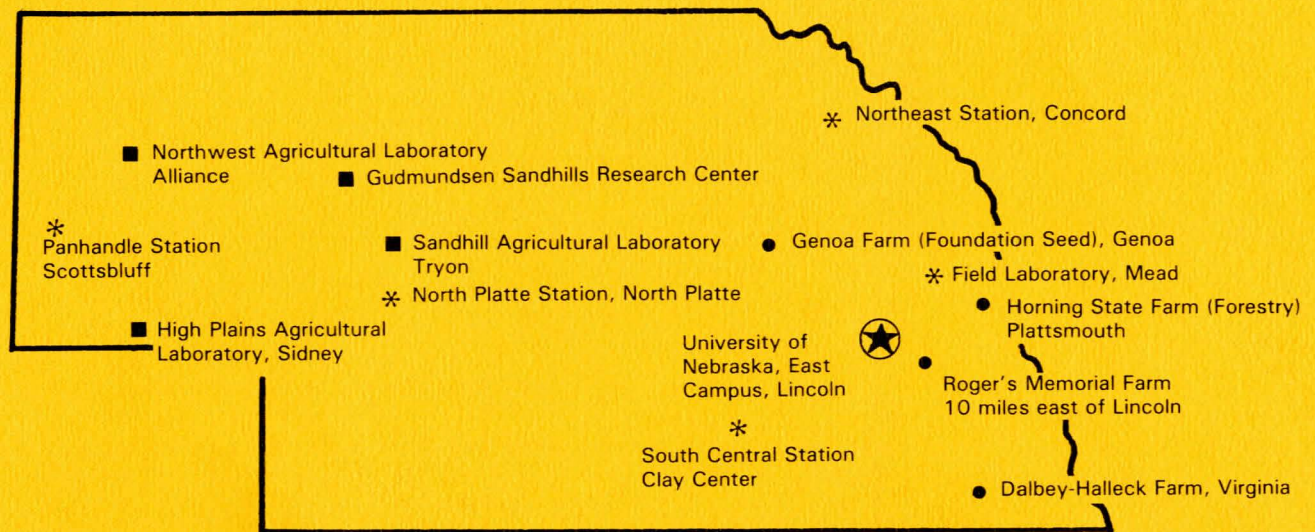
Early moisture is moisture at harvest; 1978, 1980, 1981 only.
Lodging 1977, 1978, 1980 only.

TABLE 4a. ZONE C. MORRILL COUNTY IRRIGATED. 1982.

BRAND	HYBRID	PLANT BLOOM DAYS	PLANT HT IN	HEAD EXSERT IN	EARLY MOIST PCT	STALK LODGE PCT	TEST WEIGHT LB/BU	GRAIN YIELD BU/A
-----	NE EXP 793672	•	50	•	14	•	55.2	56
-----	NE EXP 793673	•	43	•	17	•	52.7	89
-----	NE EXP 793674	•	39	•	20	•	52.2	80
-----	NE EXP 793676	•	47	•	17	•	52.5	79
-----	RS 455	•	47	•	14	•	53.0	68
ASGROW	CORRAL	•	43	•	21	•	47.7	72
CARGILL	22	•	41	•	17	•	51.8	73
CARGILL	30	•	42	•	20	•	46.7	85
CARGILL	40	•	40	•	23	•	43.6	64
CARGILL	55	•	44	•	26	•	38.3	56
CARGILL	60	•	39	•	30	•	30.9	33
DEKALB	DK-28	•	36	•	21	•	50.4	89
DEKALB	DK-33	•	44	•	19	•	49.8	91
DEKALB	EXP. 233	•	38	•	18	•	52.7	99
FONTANELLE	3345	•	40	•	21	•	48.9	98
FUNK	G-1350	•	38	•	20	•	51.2	95
FUNK	HW5521	•	43	•	21	•	47.6	88
GOLD TAG	GT 335	•	44	•	23	•	40.4	62
GOLD TAG	GT 475	•	43	•	23	•	45.6	82
GOLDEN ACRES	T-E Y-44-R	•	38	•	21	•	45.5	75
GOLDEN ACRES	T-E Y-45	•	43	•	24	•	40.8	76
GOLDEN ACRES	T-E Y-45-G	•	43	•	22	•	45.4	62
HORIZON	101G	•	39	•	32	•	32.5	24
MC CURDY	M444	•	39	•	22	•	46.7	75
MC CURDY	89YG	•	40	•	24	•	41.8	82
MIGRO	TEK EXP 2008	•	41	•	21	•	49.3	90
MIGRO	TEK 1011R	•	38	•	22	•	48.4	85
MIGRO	TEK 1021R	•	40	•	25	•	44.5	78
MIGRO	TEK 14R	•	44	•	23	•	44.1	75
NC+	160	•	43	•	22	•	46.4	82
NORTHROP KING	NK 1210	•	36	•	18	•	51.5	93
NORTHROP KING	NK 1580	•	40	•	21	•	49.9	101
ORD	ORD PRONTO	•	44	•	23	•	44.2	99
PFIZER GENETICS	M518G	•	35	•	20	•	48.9	64
STAUFFER SEEDS	515	•	33	•	20	•	50.4	96
STAUFFER SEEDS	530	•	41	•	26	•	42.2	64
STAUFFER SEEDS	535	•	43	•	21	•	47.8	87
TERRA	EXPERIMENTAL 3191	•	38	•	25	•	43.7	53
TERRA	HT-40G	•	37	•	24	•	45.5	67
TERRA	HT-45G	•	39	•	30	•	38.1	64
WARNER	W-655T	•	43	•	21	•	47.4	77
WARNER	W-684DR	•	41	•	25	•	44.4	77
WARNER	WX-9181	•	37	•	21	•	47.2	78
WARNER	WX-9183	•	39	•	21	•	48.0	85
AVERAGE ALL ENTRIES			40.8		21.8		46.5	76.5
DIF. REQ. FOR SIG. 5%			2.6		1.8		2.7	20.9
25%			1.5		1.0		1.6	12.3

Early moisture is moisture at harvest on October 18.
 Bushel weights at harvest moisture.

Agricultural Research for All of Nebraska



The agricultural research division of the Institute of Agriculture and Natural Resources is the Nebraska Agricultural Experiment Station. The Experiment Station relies on its research centers and field laboratories to provide applied knowledge for development of Nebraska's largest industry—agriculture. In addition, many Nebraska farmers cooperate by furnishing land and other facilities for research projects. This provides information from areas not well represented by stations.

The Cooperative Extension Service transmits data to users through District and County Ex-

tension Offices. Area and County Extension Agents are available to provide additional interpretation and more specific recommendations.

Nebraska is a large state and has great variation due to topography and the continental type of climate. The elevation ranges from 1,000 feet to near a mile high in the northwest portion of the state, rainfall varies from 14 to 40 inches per year, and the soil types vary from sands to heavy clays. The research program thus is broad in subject matter and geography, resulting in the need for various stations and satellite locations.

The Cooperative Extension Service provides information and educational programs to all people without regard to race, color, national origin, sex or handicap.